



# Intelligent Transportation Systems Update

ITS technologies and systems  
increase efficiency of street  
operations.

*Presentation by The  
Seattle Department of  
Transportation*

*June 22, 2010*

## Seattle ITS Contracts

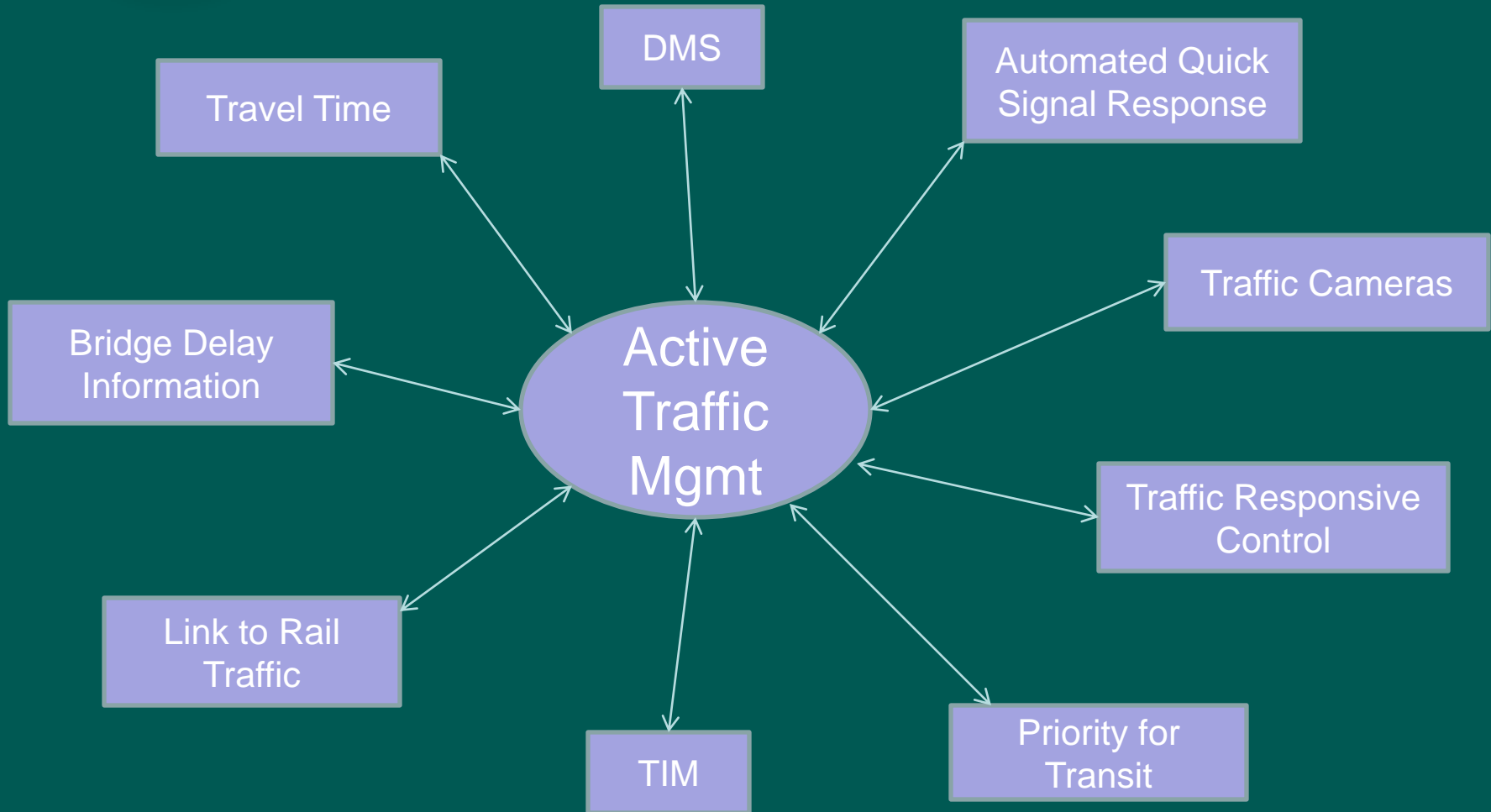




# New Capabilities

- Active Traffic Management
- Traveler Information Map (TIM)
- Dynamic Message Signs (DMS)
- Automated Traffic Signal Responses
- Real – Time Public Information

# Active Traffic Management



# Traveler's Information Map

Department of Transportation

[Home](#)

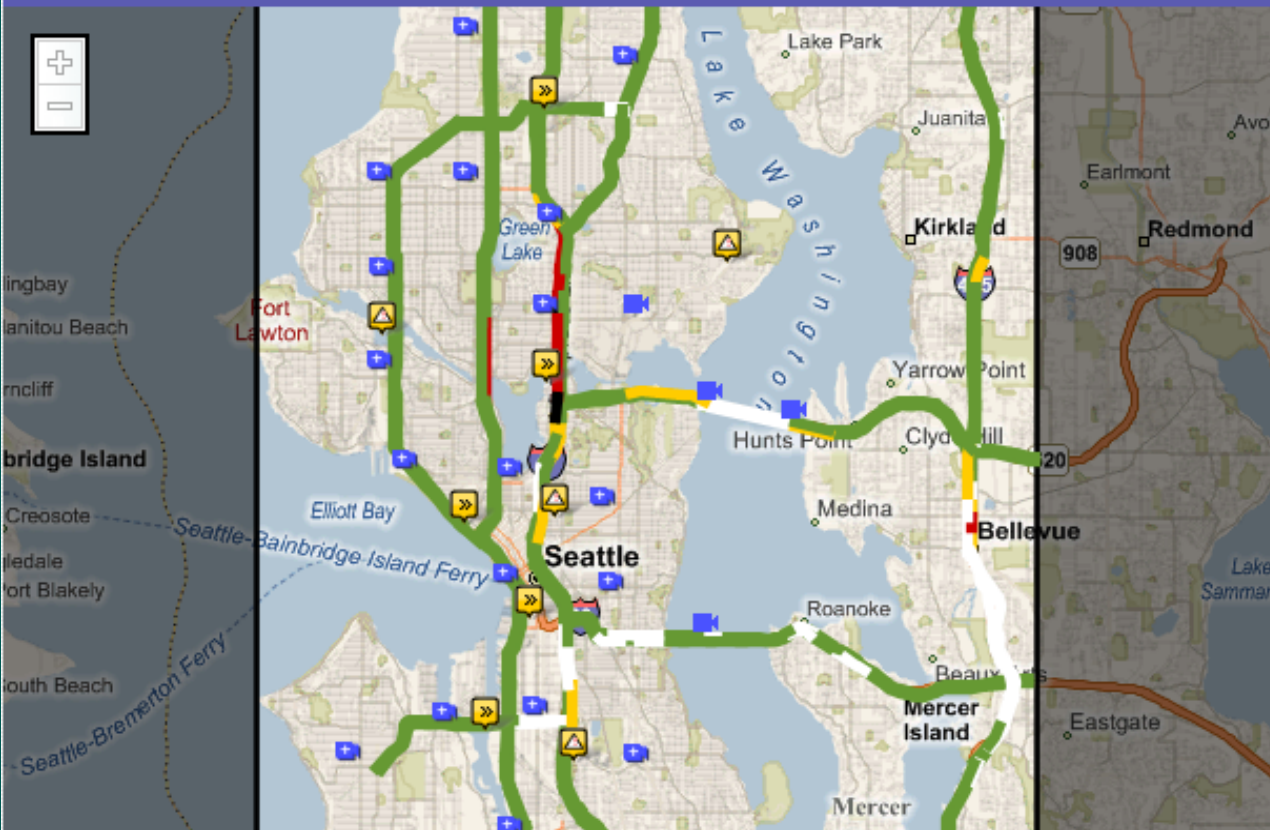
[About Us](#)

[Contact Us](#)

A vibrant Seattle through transportation excellence

Peter Hahn, Director

## Travelers Information Map



### Find out before you go

This map is designed to serve the Seattle area by providing access to live traffic congestion information. (Best viewed in 1024 x 768 screen resolution)

- Planned Event
- New Incident
- SDOT and WSDOT Traffic Cameras

Heavy ..... Light No Data

### SDOT Traffic Alerts

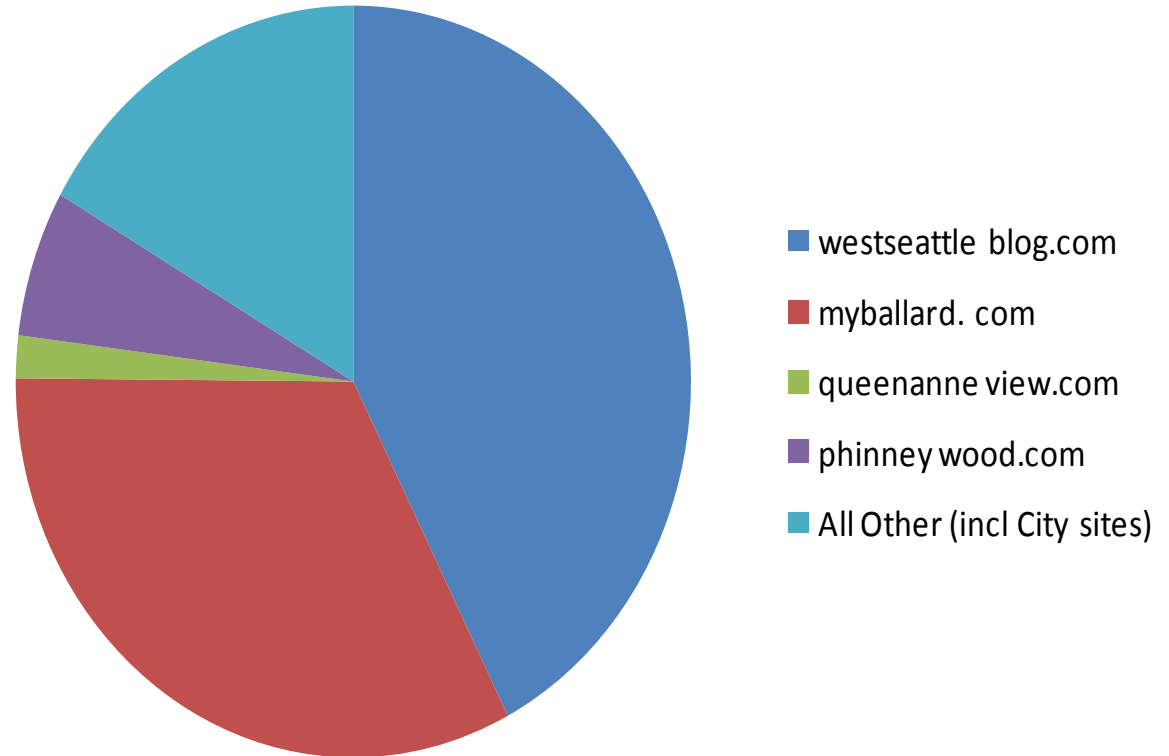
**From:** N 137TH ST  
**Lanes Affected:** SB  
**Description:** Crews will close the right lane of southbound Aurora Ave N at N 137th St overnight.  
**Start Time:** 6/15/2010 9:00 PM  
**Est. End Time:** 6/16/2010 5:00 AM

**Construction**  
**I5 EXPRESS**

**Additional Resources**

# Traffic Camera Page Hits

Year	Hits
2004	2.7M
2005	2.9M
2006	4.8M
2007	7.3M
2008	9.4M
2009	19.7M





# Dynamic Message Signs



# Automated Traffic Signal Responses

## Traffic Responsive

- Automated traffic signal timing changes based on volume

## Quick Signal Response for:

- Rail crossing, bridge opening, and special events,

## Transit Priority :

- Buses, Light Rail, Streetcar





# Automated Sequence for 1 Ave S Bridge

1. Bridge Raised

2. Message on DMS

Bridge Raised  
Expect Delays

3. Bridge Lowers

4. Message on DMS

Bridge Lowered  
Traffic Clearing

5. Signal Timing Recovery Plan



# Real-time Public Information

Traffic Cameras

Travelers Web Site



Dynamic Message Signs

Alerts from the TMC



# ITS Strategic Plan 2010 - 2020

ITS Key Arterial  
Net Work

ITS Subareas

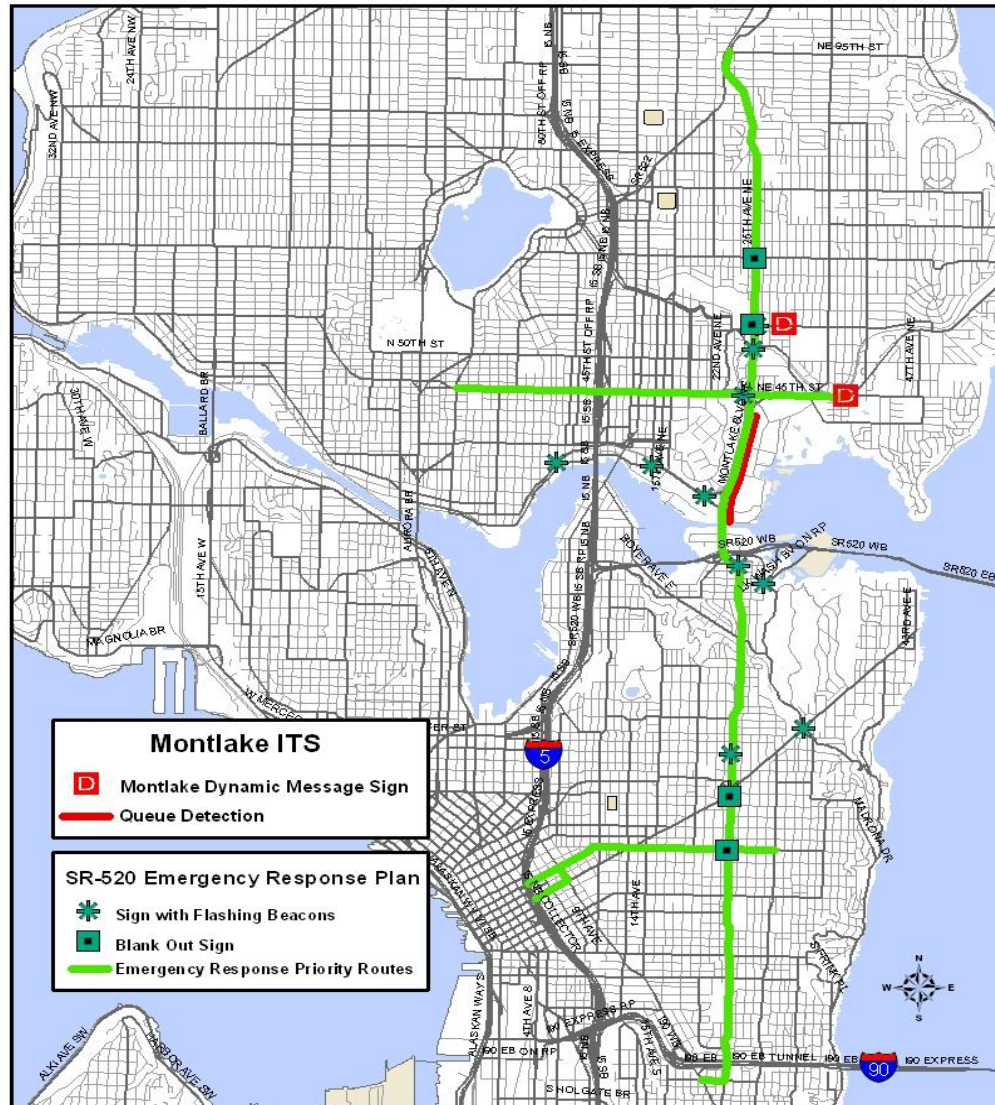


# Ten Year Plan Cost

Rank	Project	Total Cost	Annual Cost (If applicable)
1	Active Traffic and Incident Management	\$ 3,000,000.00	\$ 300,000
2	TMC Upgrades	\$ 1,000,000.00	
3	ITS Maintenance	\$ 20,000,000.00	\$ 2,000,000
4	Montlake ITS	\$ 9,174,375.00	
5	Pedestrian/Bicycle ITS	\$ 10,825,000.00	\$ 1,082,500
6	Downtown Retiming/Optimization	\$ 1,000,000.00	
7	Traffic Signal Optimization	\$ 10,000,000.00	\$ 1,000,000
8	South Lake Union/Seattle Center ITS	\$ 5,323,500.00	
9	Transit ITS	\$ 13,636,625.00	\$ 1,363,663
10	Traveler Information System Citywide	\$ 4,000,000.00	\$ 400,000



## SDOT Montlake ITS Plan



# Questions?

